



Specification

Product Name: Gingerbread Flavour Drop
Product Code: SPEC0102

Description:

Food Flavouring Drops are premium quality water soluble intense flavours which provide an exceptionally efficient method of adding flavour. They are a highly concentrated, versatile, multi-use product for both food and liquid. They should be used sparingly; 1-2 ml is ample to flavour 1 litre of base liquid. Each 30ml bottle contains approximately 800 drops. Food Flavouring Drops disperse well in most foods and drinks. They are ideal for flavouring cakes, icings, fondants, ice cream, sorbets, cupcakes, pastry, salads, sauces, frostings, ganache, desserts, cocktails, drinks, cream, wine, beer, spirits, sweets and more. They can also be used to enhance the flavour of a dish, without changing the texture of the original product.

Odour & Flavour:

Characteristic. Conforms to standard.

Ingredients:

Ethanol Alcohol, Natural flavouring preparations.

Dietary Information:

Suitable for Vegans, Ovo-lacto Vegetarians & Vegetarians, Non-GMO, Gluten Free, Allergen Free, Non-Irradiated, No Added Sugar.

Nutritional Information:

Energy: 2928.8kj/400kcal (Based on 100g).

Storage:

Store in cool, dry conditions in original, unopened containers. Use within 6 months of opening.

Packaging:

30ml	5060341113659
500ml	5056191011030
1 Litre	5056191006814
5 Litre	5056191006821

Country of Origin:

United Kingdom.

Shelf Life:

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24 months if stored as above and unopened.

Density (g/ml) at 20°C:

0.805 – 0.815

Refractive Index at 20°C:

1.365 – 1.385

Flashpoint °C (closed cup):

14

Labelling according to Regulation (EC) No. 1334/2008:

Natural Flavouring

Hazards:

Highly Flammable. See the material safety data sheet for further information.

Allergen Declaration

Allergen	Contains (Y/N)
Cereals containing Gluten	N
Crustaceans	N
Eggs	N
Fish	N
Peanuts	N
Soybeans	N
Milk	N
Nuts	N
Celery	N
Mustard	N
Sesame Seeds	N
Sulphur Dioxide and Sulphites (at concentration of more than 10mg/kg or 10mg/L in terms of Sulphur Dioxide)	N
Lupin	N
Molluscs	N

Material Safety Data Sheet**1: Identification of the substance/mixture and of the company/undertaking:****1.1 – Product identifier**

Product form: Mixture,

Product name: Gingerbread Flavour Drop.

Product Code: SPEC0102

1.2 – Relevant identified uses of the substance or mixture and uses advised against:

1.2.1: Relevant identified uses: use of the substance/mixture: Food and/or beverage flavouring.

1.2.2: Uses advised against: Restrictions on use: Not for direct consumption.

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**1.3 – Details of the supplier of the safety data sheet:**

Company: Special Ingredients Ltd, 4 Foxwood View, Chesterfield, S41 9RN. Tel: 0044 (0)1246 906247

1.4 - Emergency Telephone Contact: 07387 330318. <https://specialingredients.co.uk/pages/contact>

2: Hazards Identification:**2.1 – Classification of the substance or mixture:**

Classification according to Regulation (EC) No. 1272/2008 (CLP):

Flammable liquids, Category 2: H225,

Skin sensitisation, Category 1: H317

Germ cell mutagenicity, Category 2: H341

Carcinogenicity, Category 1B: H350

Full text of H- and EUH- statements: See section 16.

Adverse psychochemical, human health and environmental effects: Highly flammable liquid and vapour. May cause cancer. Suspected of causing genetic defects. May cause an allergic skin reaction.

2.2 – Label elements:

Labelling according to Regulation (EC) no. 1272/2008 {CLP},

Hazard Pictograms (CLP):



GHS02



GHS07



GHS08

Signal word (CLP): Danger

Hazardous ingredients: Cinamon leaf oil.

Hazard Statements (CLP):

- H225 Flammable liquid and vapour.
- H317 – May cause an allergic skin reaction
- H341 – Suspected of causing genetic defects
- H350 – May cause cancer

Precautionary statements (CLP):

- P201 – Obtain special instructions before use.
- P202 – Do not handle until all safety precautions have been read and understood.
- P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources, No smoking.
- P233 – Keep container tightly closed.
- P240 – Ground and bond container and receiving equipment.
- P241 – Use explosion-proof electrical/ ventilating, lighting equipment,

2.3 – Other hazards:

Not applicable.

3: Composition/Information on Ingredients:**3.1 – Substances:**

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Not applicable.

3.2 – Mixtures:

Name	Product identifier	%	Classification according to Regulation (EC) no.1272/2008 (CLP)
Ethanol substance with national workplace exposure limit(s) (GB)	(CAS-No) 64-17-5 (EC-No) 200-578-6 (EC Index-No.) 603-002-00-5	≥ 80	Flam. Liq. 2, H225
Cinnamon Leaf Oil	(CAS-No.) 84649-98-9 (EC-No.) 283-479-0	1 – 5	Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Aquatic Chronic 3, H412

Full Text of H- and EUH statements: see section 16.

4: First Aid Measures:

4.1 – Description of First Aid Measures:

First Aid Measures general: IF exposed or concerned: Get medical advice / attention.

First Aid Measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First Aid Measures after skin contact: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice / attention.

First Aid Measures after eye contact: Rinse eyes with water as a precaution.

First Aid Measures after ingestion: Call a poison centre or a doctor if you feel unwell.

4.2 – Most important symptoms and effect, both acute and delayed:

Symptoms / effects after skin contact: May cause an allergic reaction.

4.3 – Indication of any immediate medical attention and special treatment needed:

Treat Symptomatically.

5: Firefighting Measures:

5.1 - Extinguishing media:

Suitable extinguishing media: Water spray, Dry powder, Foam, Carbon dioxide.

5.2 – Special hazards arising from the substance or mixture:

Fire hazard: Highly flammable liquid and vapour.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3 – Advice for firefighters:

Protection during firefighting: Do not attempt to take action without suitable protective equipment, Self-contained breathing apparatus, Complete protective clothing.

6: Accidental Release Measures:

6.1 – Personal precautions, protective equipment and emergency procedures:

6.1.1 – For non-emergency personnel:

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Emergency Procedures: No open flames, no sparks and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust / fumes / gas / mist / vapours / spray.

6.1.2 – For emergency responders:

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8. "Exposure controls/ personal protection."

6.2 – Environmental Precautions:

Avoid release to the environment.

6.3 – Methods and material for containment and cleaning up:

Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

6.4 – Reference to other sections:

For further information refer to section 13.

7: Handling and Storage:

7.1 – Precautions for safe handling:

Precautions for safe handling: Ensure good ventilation of the work station, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floor, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Avoid breathing dust / fume / gas / mist / vapours / spray.

Hygiene measures: Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 – Conditions for safe storage, including any incompatibilities:

Technical measures: Ground/bond container and receiving equipment.

Storage conditions: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

7.3 – Specific end use(s):

No additional information available.

8: Exposure Controls/ Personal Protection:

8.1 – Control parameters:

Propylene glycol (57-55-6)		
United Kingdom	Local Name	Ethanol
United Kingdom	WEL TWA (OEL TWA) [1]	1920 mg/m ³

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United Kingdom	WEL TWA (OEL TWA) [2]	1000 ppm
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

8.2 – Exposure controls:

Appropriate engineering controls: Ensure good ventilation of the work station.

Hand Protection					
Protective gloves against chemicals (EN 374)					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	5 (> 240 minutes)	0.20-0.30	2 (< 1.5)	EN 420, EN 16523-1, EN ISO 374-1, EN 374-2, EN 374-4, EN 374-5
Eye protection					
Safety Glasses					
Type		Field of application	Characteristics	Standard	
Safety Goggles		Droplet, Dust	Clear, Plastic	EN 166 1B3	
Skin and body protection					
Type			Standard		
Lab Coat			ASTM F903		
Respiratory Protection					
Device	Filter type	Condition	Standard		
Powered Air-purifying Respirator (PAPR)	Filter AX (brown), Filter P (white), Type A – High Boiling (>65 °C) organic compounds	Protection for liquid particles, Protection for solid particles, Short term exposure	EN 12941		

Person protective equipment symbols:

Environmental exposure controls: Avoid Release to the environment.

9: Physical and Chemical Properties:**9.1 – Information on basic physical and chemical properties:**

Physical state: Liquid

Colour: No data available.

Odour: Characteristic. Conforms to standard.

Odour threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

Melting point: Not applicable



Freezing point: No data available

Boiling point: > 35°C

Flash point: < 15°C

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): Not applicable

Vapour pressure: No data available

Relative vapour density at 20°C: No data available

Relative density: No data available

Density: 0.815 (0.805 – 0.825)g/ml at 20°C

Solubility: No data available

Partition coefficient n-octanol/water (Log Know): No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidising properties: No data available

Explosive limits: No data available.

9.2 – Other information:

Refractive index: 1.368 – 1.385

Stability and Reactivity:

10.1 – Reactivity:

Highly flammable liquid and vapour.

10.2 – Chemical Stability:

Stable under normal conditions.

10.3 - Possibility of hazardous reactions:

No dangerous reactions known under normal conditions of use.

10.4 – Conditions to avoid:

Avoid contact with hot surfaces, heat. No flames, no sparks. Eliminate all sources of ignition.

10.5 – Incompatible materials:

No additional information available.

10.6 – Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11: Toxicological Information:

11.1 – Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitisation: May cause an allergic reaction.

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Germ cell mutagenicity: Suspected of causing genetic defects.

Carcinogenicity: May cause cancer.

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Other information: Special Ingredients Ltd do not test on animals, this is historical information.

12: Ecological Information:

12.1 – Toxicity:

Ecology – General: This product is not considered harmful to aquatic organisms nor to cause long term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, Long-term (Chronic): Not classified

12.2 – Persistence and Degradability:

Ethanol (64-17-5)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.8 – 0.967 g O ₂ /g substance
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance
ThOD	2.1 g O ₂ /g substance
BOX (% of ThOD)	0.43

12.3 - Bioaccumulative Potential:

No additional information available.

12.4 - Mobility in soil:

Ethanol (64-17-5)	
Surface tension	0.022 N/m (20°C)
Ecology – soil	Highly mobile in soil

12.5 - Results of PBT and vPvB assessment:

Component	
Ethanol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6 – Other adverse effects:

No additional information available.

13: Disposal Considerations:

**13.1 – Waste treatment methods:**

Waste treatment methods: Dispose of contents/ container in accordance with licensed collectors sorting instructions.

Additional information: Flammable vapours may accumulate in the container.

14: Transport Information:

In accordance with ADR/IMDG/IATA/ADN/RID.

ADR	IMDG	IATA	ADN	RID
14.1 UN number				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
14.2 UN proper shipping name				
FLAMMABLE LIQUID, N.O.S (ethanol; ethyl alcohol)	FLAMMABLE LIQUID, N.O.S (ethanol; ethyl alcohol)	Flammable liquid, n.o.s (ethanol; ethyl alcohol)	FLAMMABLE LIQUID, N.O.S (ethanol; ethyl alcohol)	FLAMMABLE LIQUID, N.O.S (ethanol; ethyl alcohol)
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol) (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol)	UN 1993 FLAMMABLE LIQUID, n.o.s. (ethanol; ethyl alcohol)	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol)	UN 1993 FLAMMABLE LIQUID, N.O.S. (ethanol; ethyl alcohol)
14.3 Transport hazard classes				
3	3	3	3	3
14.4 Packing group				
II	II	II	II	II
14.5 Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No Supplementary information available				

14.6 – Special precautions for user:**Overland transport**

Classification code (ADR): F1

Special provisions (ADR): 274, 601, 640D

Limited quantities: 1I

Excepted quantities (ADR): E2

Packing instructions (ADR): P001, IBC02, R001

Mixed packing provisions (ADR): MP19

Portable tank and bulk container instructions (ADR): T7

Portable tank and bulk container special provisions (ADR): TP1, TP8, TP28

Tank code (ADR): LGBF

Vehicle for tank carriage: FL

Transport category (ADR): 2

Special provisions for carriage – operation (ADR): S2, S20

Hazard identification number (Kemler no.): 33

Orange plates:

33

1993

Tunnel restriction code (ADR): D/E

EAC code: ■3YE

Transport by Sea

Special provisions (IMDG): 274

Limited quantities (IMDG): 1 L

Excepted quantities (IMDG): E2

Packing instructions (IMDG): P001

IBC packing instructions (IMDG): IBC02

Tank instructions (IMDG): T7

Tank special provisions (IMDG): TP1, TP29, TP8

EmS - No. (Fire): F-E

EmS (spillage): S-E

Stowage category (IMDG): B

Air Transport

PCA excepted quantities (IATA): E2

PCA Limited quantities (IATA): Y341

PCA limited quantity max net quantity (IATA): 1L

PCA packing instructions (IATA): 353

PCA max net quantity: 5L

CAO packing instructions (IATA): 364

CAO max net quantity (IATA): 60L

Special provisions (IATA): A3

ERG code (IATA): 3H

Inland waterway transport

Classification code: (ADN): F1

Special provisions (ADN): 274, 601, 640D

Limited quantities (ADN): 1L

Excepted quantities (ADN): E2

Equipment required (ADN): PP, EX, A,

Ventilation (ADN): VE01

Number of blue cones/lights (ADN): 0

Rail transport

Classification Code (RID): F1

Special provisions (RID): 274, 601, 640D

Limited quantities (RID): 1L

Excepted quantities (RID): E2

Packing instructions (RID): P001, IBC02, R001

Mixed packing provisions (RID): MP19

Portable tank and bulk container instructions (RID): T7

Portable tank and bulk container special provisions (RID): TP1, TP8, TP28

Tank codes for RID tanks (RID): LGBF

Transport category (RID): 2

Colis express (express parcels) (RID): CE7



Hazard identification number (RID): 33

14.7 – Transport in bulk according to Annex II of Marpol and the IBC code:

Not applicable.

15: Regulatory Information:

15.1 – Safety, health and environmental regulations/legislation specific for the substance or mixture:

15.1.1 – EU regulations:

Contains no REACH Substance(s) with Annex XVII Restrictions

Contains no substance listed on the REACH candidate list

Contains no Reach Annex XIV substances

Contains no substance subject to Regulation (EU) No. 649/2012 of the European Parliament and of the Council of 4th July 2012 concerning the export and import of hazardous chemicals

Contains no substance subject to regulation (EU) No 2019/1021 of the European parliament and of the council of 20 June 2019 on persistent organic pollutants.

15.1.2 – National Regulations:

No additional information available.

15.2 – Chemical safety assessment

No chemical safety assessment has been carried out.

16: Other Information:

Abbreviations and acronyms	
ADN	European Agreement concerning the international carriage of dangerous goods by inland waterways
ADR	European Agreement concerning the international carriage of dangerous goods by road
ATE	Acute toxicity Estimate
BCF	Bio-concentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived minimal effect level
DNEL	Derived-no effect level
EC-No.	European community number
EC50	Median effective concentration
EN	European standard
IARC	International Agency for research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit



PBT	Persistent Bio accumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the international Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bio accumulative
ED	Endocrine disrupting properties

Full Text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 1B	Carcinogenicity, Category 1B
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour
H317	May cause an allergic skin reaction
H434	Suspected of causing genetic defects
H350	May cause cancer.
H415	Harmful to aquatic life with long lasting effects
Muta. 2	Germ cell mutagenicity, Category 2
Skin Sens. 1	Skin Sensitisation, Category 1

The information contained herein is to the best of our knowledge, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability whatsoever, however arising, which results directly or indirectly from the use of the product.